

NATIONAL BUREAU OF STANDARDS REPORT

10 205

Operation Breakthrough

Preliminary Report

EXISTING BUILDING AND DEVELOPMENTAL REGULATIONS IN INDIANAPOLIS, INDIANA

Sponsored by
Department of Housing
and Urban Development



U.S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS

NATIONAL BUREAU OF STANDARDS

The National Bureau of Standards¹ was established by an act of Congress March 3, 1901. Today, in addition to serving as the Nation's central measurement laboratory, the Bureau is a principal focal point in the Federal Government for assuring maximum application of the physical and engineering sciences to the advancement of technology in industry and commerce. To this end the Bureau conducts research and provides central national services in four broad program areas. These are: (1) basic measurements and standards, (2) materials measurements and standards, (3) technological measurements and standards, and (4) transfer of technology.

The Bureau comprises the Institute for Basic Standards, the Institute for Materials Research, the Institute for Applied Technology, the Center for Radiation Research, the Center for Computer Sciences and Technology, and the Office for Information Programs.

THE INSTITUTE FOR BASIC STANDARDS provides the central basis within the United States of a complete and consistent system of physical measurement; coordinates that system with measurement systems of other nations; and furnishes essential services leading to accurate and uniform physical measurements throughout the Nation's scientific community, industry, and commerce. The Institute consists of an Office of Measurement Services and the following technical divisions:

Applied Mathematics—Electricity—Metrology—Mechanics—Heat—Atomic and Molecular Physics—Radio Physics²—Radio Engineering²—Time and Frequency²—Astrophysics²—Cryogenics.²

THE INSTITUTE FOR MATERIALS RESEARCH conducts materials research leading to improved methods of measurement standards, and data on the properties of well-characterized materials needed by industry, commerce, educational institutions, and Government; develops, produces, and distributes standard reference materials; relates the physical and chemical properties of materials to their behavior and their interaction with their environments; and provides advisory and research services to other Government agencies. The Institute consists of an Office of Standard Reference Materials and the following divisions:

Analytical Chemistry—Polymers—Metallurgy—Inorganic Materials—Physical Chemistry.

THE INSTITUTE FOR APPLIED TECHNOLOGY provides technical services to promote the use of available technology and to facilitate technological innovation in industry and Government; cooperates with public and private organizations in the development of technological standards, and test methodologies; and provides advisory and research services for Federal, state, and local government agencies. The Institute consists of the following technical divisions and offices:

Engineering Standards—Weights and Measures—Invention and Innovation—Vehicle Systems Research—Product Evaluation—Building Research—Instrument Shops—Measurement Engineering—Electronic Technology—Technical Analysis.

THE CENTER FOR RADIATION RESEARCH engages in research, measurement, and application of radiation to the solution of Bureau mission problems and the problems of other agencies and institutions. The Center consists of the following divisions:

Reactor Radiation—Linac Radiation—Nuclear Radiation—Applied Radiation.

THE CENTER FOR COMPUTER SCIENCES AND TECHNOLOGY conducts research and provides technical services designed to aid Government agencies in the selection, acquisition, and effective use of automatic data processing equipment; and serves as the principal focus for the development of Federal standards for automatic data processing equipment, techniques, and computer languages. The Center consists of the following offices and divisions:

Information Processing Standards—Computer Information—Computer Services—Systems Development—Information Processing Technology.

THE OFFICE FOR INFORMATION PROGRAMS promotes optimum dissemination and accessibility of scientific information generated within NBS and other agencies of the Federal government; promotes the development of the National Standard Reference Data System and a system of information analysis centers dealing with the broader aspects of the National Measurement System, and provides appropriate services to ensure that the NBS staff has optimum accessibility to the scientific information of the world. The Office consists of the following organizational units:

Office of Standard Reference Data—Clearinghouse for Federal Scientific and Technical Information³—Office of Technical Information and Publications—Library—Office of Public Information—Office of International Relations.

¹ Headquarters and Laboratories at Gaithersburg, Maryland, unless otherwise noted; mailing address Washington, D.C. 20234.

² Located at Boulder, Colorado 80302.

³ Located at 5285 Port Royal Road, Springfield, Virginia 22151.

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NBS PROJECT

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NBS REPORT

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May 15, 1970

Operation Breakthrough

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by

The Building Research Division Team

E. O. Pfrang, Manager

Sponsored by
Department of Housing
and Urban Development

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U.S. DEPARTMENT OF COMMERCE

NATIONAL BUREAU OF STANDARDS

INTRODUCTION

This report lists the regulatory documents that apply to the Department of Housing and Urban Development Operation Breakthrough site in Indianapolis, Indiana; the documents themselves, insofar as they are obtainable, are also furnished. The report's overall content is indicated by its Table of Contents:

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II Regulatory Data: Listing

Included in the following list are the offices from which the documents are available as well as the documents' costs, if any, should additional copies be required.

- 1 Consolidated Government for Indianapolis as Provided by Indiana Senate Bill 543, available from:

City-County Clerk
Indianapolis, Indiana 46204

- 2 Consolidated Government for Indianapolis, Article VIII, Senate Bill 543, available from:

Department of Metropolitan Development
City-County Building
Indianapolis, Indiana 46204

- 3 Operation Breakthrough Prototype Site Questionnaire, State Farm Site, available from:

Department of Metropolitan Development
City-County Building
Indianapolis, Indiana 46204

- 4 Municipal Code, Indianapolis, 1951, Title 8, Building Code, available from:

City-County Clerk
Indianapolis, Indiana 46204 \$15.00

- 5 Building Rules and Regulations, Volume 1, 1969, available from:

Administrative Building Council of Indiana
Indiana State Office Building
100 N. Senate Avenue
Indianapolis, Indiana 46204 \$4.00

- 6 Information on Submission of Plans, etc., January 1970, available from:

Administrative Building Council of Indiana
Indiana State Office Building
Indianapolis, Indiana 46204.

- 7 Certificate of Compliance, available from:

Administrative Building Council of Indiana
Indiana State Office Building
Indianapolis, Indiana 46204

- 8 Revised Schedule of Plan Examination Fees, July 1, 1969, available from:

Administrative Building Council of Indiana
Indiana State Office Building
Indianapolis, Indiana 46204

- 9 1967 Supplement to Municipal Code, 1951, Title 8, available from:

City-County Clerk
Indianapolis, Indiana 46204 \$10.00

- 10 Ordinance Requiring Submission of Building Plans for Apartment Houses, to Bureau of Fire Protection, G. O. 22, 1969, available from:

City-County Clerk
Indianapolis, Indiana 46204

- 11 Ordinance to Establish Requirements for Locks on Exterior Doors, G. O. No. 25, 1969, available from:

City-County Clerk
Indianapolis, Indiana 46204

- 12 Plumbing Rules and Regulations, Volume III, 1968, available from:

Administrative Building Council of Indiana
Indiana State Office Building
Indianapolis, Indiana 46204 \$2.00

- 13 Indiana Elevator Law and Rules, available from:

Division of Labor
Elevator Safety Subdivision
State Office Building
Indianapolis, Indiana 46204 N.C.

- 14 National Electrical Code, NFPA No. 70, 1968, available from:

National Fire Protection Association
60 Batterymarch Street
Boston, Massachusetts 02110 \$2.00

- 15 Heating, Ventilating and Air Conditioning, Volume IV, 1970, available from:

Administrative Building Council of Indiana
Indiana State Office Building
Indianapolis, Indiana 46204 \$2.00

- 16 Dwelling Districts Zoning Ordinance of Marion County, Indiana, available from:

Metropolitan Planning Department
City-County Building
Indianapolis, Indiana 46204 \$1.00

- 17 Commercial Zoning Ordinance of Marion County, Indiana, available from:

Metropolitan Planning Department
City-County Building
Indianapolis, Indiana 46204 \$1.00

- 18 Subdivision Regulations for Marion County, Indiana, available from:

Metropolitan Planning Department
City-County Building
Indianapolis, Indiana 46204 \$1.00

- 19 Indiana Air Pollution Control Law, available from:

Air Pollution Control Board of Indiana
1330 West Michigan Street
Indianapolis, Indiana 46206

- 20 Air Pollution Control Regulations APC 1 through 7, available from:

Air Pollution Control Board of Indiana
1330 West Michigan Street
Indianapolis, Indiana 46206

- 21 Air Pollution, an Ordinance for the Control of the Atmosphere in the Indianapolis Area, G. O. No. 109, 1967, available from:

City-County Clerk
Indianapolis, Indiana 46204

- 22 An Ordinance to Extend City Control of Air Pollution, G. O. No. 23, 1969, available from:

City-County Clerk
Indianapolis, Indiana 46204

- 23 Procedure for Street Improvement, available from:

Department of Transportation
Indianapolis, Indiana 46204

- 24 Safety Code No. 13 for the Construction Industry, available from:

Division of Labor
State Office Building
Indianapolis, Indiana 46204 N.C.

III Regulatory Data: Comments and Explanations

Note 1

As of January 1, 1970, the governments of the city of Indianapolis and of Marion County, of which it is a part, have been merged to form the City of Indianapolis (Consolidated), with the administration sometimes referred to as Unigov.

Note 2

Zoning requirements for the whole county, including the city of Indianapolis, have been set by the Metropolitan Planning Department (county) even prior to the merger of the city and county governments.

Note 3

Occupancies having more than two residential units must meet the requirements of the (State) Building Rules and Regulations, Volume 1, 1960 of the Administrative Building Council of Indiana. The Elevator Law and Rules (under revision as of May 1, 1970) are promulgated by the State Division of Labor and are mandatory without revision by local authority throughout the State.

Note 4

The State Building Rules and Regulations specifically recommends that municipalities and other local jurisdictions adopt:

1. Fire limits (and regulations pertaining to the construction of frame buildings therein).
2. Regulations governing the construction of private residences.
3. Other fire preventive and sanitary regulations not in the State regulations.

The State air pollution control law also encourages city and town air pollution control boards to handle the problem within their jurisdictions.

Note 5

As of May 1, 1970, the building code requirements for one- and two-family dwellings are covered by the Municipal Code, Indianapolis, 1951, Title 8, the 1967 Supplement to Municipal Code 1951, and several ordinances (pertinent principally to licensing) in the Proceedings of the Common Council, Indianapolis, 1967 and 1968. A newly drafted Building Rules and Regulations for One- and Two-Family Residences for the City of Indianapolis (Consolidated) is before the City-County Council. This may be subject to certain revisions before final adoption.

Note 6

The several regulatory codes, State and city-county, applicable to the Indianapolis site, together with such other generally recognized codes and standards as may be referenced in them, furnish the housing system producer and/or site developer with all the requirements for usual housing construction on the site. These may be subject to waiver procedures to the extent the proposed housing system is at variance with the existing requirements.

Factory-Built Housing:

The code currently in effect in Indianapolis for one-and two family housing and the State Building Rules and Regulations have no specific provisions for acceptance of factory-built structures, and the general procedures for approval of variances would be applicable. The proposed Indianapolis code allows certification of factory-built housing or components, and such a section is being considered for addition to the State Building Rules and Regulations.

Administration:

The State Building Rules and Regulations are enforced in cooperation with local officials.

Permits, Registration, Licensure:

Architects and Engineers must be registered in Indiana.

Electrical, Plumbing and heating contractors are licensed by the city. No licensing is required for general contractors at present, but certain stipulations, such as bonding, are under consideration.

Permits are issued by the city building commissioner after certification by the architect or engineer that the submitted plans are in accordance with the requirements of the applicable rules and regulations. Prior State approval of plans is required for multifamily dwellings.

All structures except "private residences" must be designed by an architect or engineer.

Conflicts, Appeals:

Appeals on city ordinances and requirements are made to the building commissioner, with further appeal available to a board of arbitration.

State Building Rules and Regulations appeals are filed with the State Building Commissioner who refers them to the Administrative Building Council which meets quarterly, or in special meeting in emergencies.

Planning and Zoning:

The Operation Breakthrough site in Indianapolis is in Fire Zone 3.

Planned unit development is provided for in the Dwelling Districts Zoning Ordinance of Marion County.

Electrical:

The city 1967 Supplement to Municipal Code, 1951 references the 1953 National Electrical Code. The city further states that revisions to the electrical code will be made by ordinance of the common council. It is further stated, however, that elevator wiring, lighting and signs, and alarm systems shall conform to the State Rules and Regulations (which reference the 1968 National Electrical Code).

Plumbing, Heating, Ventilating, Air Conditioning:

The Building Code of Indianapolis, 1951, references the Rules and Regulations of the Administrative Building Council of Indiana, Volume III, Plumbing, and Volume IV, Heating, Ventilating and Air Conditioning, and provides that future amendments and additions to these rules and regulations shall become a part of the city building code.

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IV Administration--Indianapolis, Indiana

Population, 1964, metropolitan area: 971,000

Government: Mayor and City-County Council

Administration of Codes:

Building (Indianapolis)	Lloyd W. Scholl Commissioner of Buildings City-County Building Indianapolis, Indiana 46204 (317) 633-3631
Building (State)	Charles J. Betts State Building Commissioner Administrative Building Council of Indiana Indianapolis, Indiana 46204 (317) 633-5433
Zoning and Planning	David O. Meeker, Director Department of Metropolitan Planning City-County Building Indianapolis, Indiana 46204 (317) 633-3198

